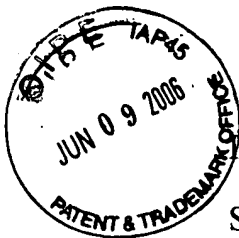


IFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE



In re application of Thomas GINGERAS et al.

Examiner: C. B. Wilder

Serial No.: 09/285,306

Art Unit: 1637

Filed: April 2, 1999

Confirmation No.: 3558

For: MYCOBACTERIAL RPOB SEQUENCES

Commissioner for Patents
Customer Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314

REPLY TO INTERVIEW SUMMARY

In response to the Interview Summary dated June 8, 2006, submitted herewith is a replacement version of Table 1. The table has been corrected to replace material that was not legible or cut-off. No prohibited new matter has been added.

Respectfully submitted,

COOLEY GODWARD LLP

Dated: June 9, 2006

By:

Bonnie Weiss McLeod

Reg. No. 43,255

CUSTOMER NO. 000033522

COOLEY GODWARD LLP

ATTN: Patent Group

The Bowen Building

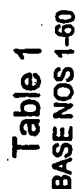
875 15th Street, NW

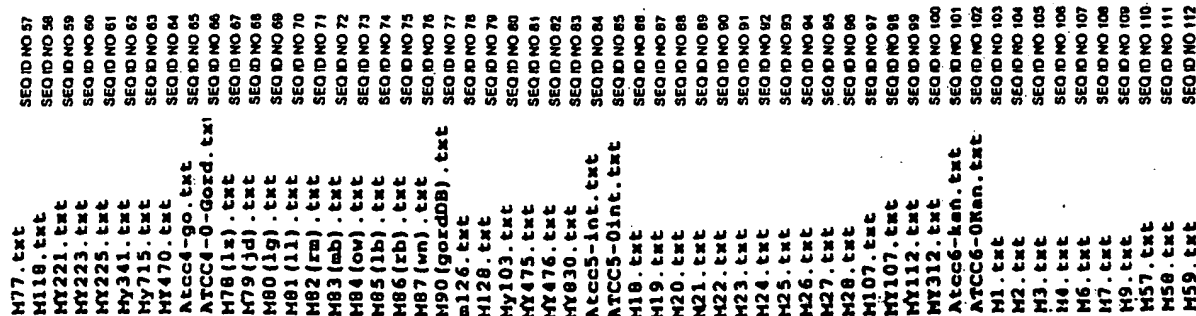
Suite 800

Washington D.C. 20005-2221

Tel: (202) 842-7800

Fax: (202) 842-7899

18

[illegible]

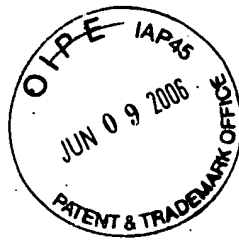


Table 1
BASE NOS 1-60

SEQ ID NO 113	My60. txt	CCCA GGACGT	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG
SEQ ID NO 114	My61. txt	CCCA GGACGT	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG
SEQ ID NO 115	My62. txt	CCCA GGACGT	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG
SEQ ID NO 116	My106. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 117	My216. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 118	My218. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 119	My226. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 120	My109. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 121	My111. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 122	My112. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 123	My113. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 124	My114. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 125	My325. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 126	My718. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 127	My214. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 128	My224. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 129	My244. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 130	My339. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 131	My343. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 132	My458. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 133	My809. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 134	My817. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 135	My821. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 136	My824. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 137	My102. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 138	My105. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 139	My251. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 140	My256. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 141	My294. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 142	My354. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 143	Atcc7-scr. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 144	Atcc7-0scr. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 145	My121. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 146	My249. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 147	My372. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 148	My378. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 149	My484. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 150	My556. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 151	My563. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 152	My586. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 153	Atcc8-smo. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 154	My35. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 155	My36. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 156	My37. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 157	My125. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 158	My143. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 159	My104. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 160	My196. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 161	My357. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 162	My358. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 163	My480. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 164	My212. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 165	My491. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 166	My497. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 167	My816. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	
SEQ ID NO 168	Atcc10-xen. txt	GGAG GCGAT	CACAC CGCGAGAC	ATGAT CAACAT	CCCGT GGT	CGCCG	



M38. txt
M39. txt
M40. txt
M41. txt
M42. txt
M43. txt
M44. txt
M45. txt
M46. txt
M47. txt
M58 (Mav6). txt
M89. txt
M56 (Mav1). txt

21

Table 1
BASE NOS 61-120

ATCC9-Mtb.txt	SEQ ID NO 1	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
My621.txt	SEQ ID NO 2	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
Atcc1-av.txt	SEQ ID NO 3	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M29.txt	SEQ ID NO 4	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M30.txt	SEQ ID NO 5	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M31.txt	SEQ ID NO 6	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M32.txt	SEQ ID NO 7	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M33.txt	SEQ ID NO 8	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M34.txt	SEQ ID NO 9	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M48-new.txt	SEQ ID NO 10	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M49.txt	SEQ ID NO 11	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M64(Mav2).txt	SEQ ID NO 12	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M65(Mav3).txt	SEQ ID NO 13	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M67(Mav5).txt	SEQ ID NO 14	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M69(Mav7).txt	SEQ ID NO 15	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M71(Mav9).txt	SEQ ID NO 16	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M91.txt	SEQ ID NO 17	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M94.txt	SEQ ID NO 18	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M95.txt	SEQ ID NO 19	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M96.txt	SEQ ID NO 20	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M100.txt	SEQ ID NO 21	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M101.txt	SEQ ID NO 22	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M102.txt	SEQ ID NO 23	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M104.txt	SEQ ID NO 24	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M105.txt	SEQ ID NO 25	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M106.txt	SEQ ID NO 26	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
My111.txt	SEQ ID NO 27	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M76.txt	SEQ ID NO 28	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
My451.txt	SEQ ID NO 29	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
ATCC2-cholesterol.txt	SEQ ID NO 30	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M10.txt	SEQ ID NO 31	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M11-662.txt	SEQ ID NO 32	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M12.txt	SEQ ID NO 33	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M13 2 662.txt	SEQ ID NO 34	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M14.txt	SEQ ID NO 35	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M15.txt	SEQ ID NO 36	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M16.txt	SEQ ID NO 37	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M17 2 662.txt	SEQ ID NO 38	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M50.txt	SEQ ID NO 39	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M51.txt	SEQ ID NO 40	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M115.txt	SEQ ID NO 41	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M116.txt	SEQ ID NO 42	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M119.txt	SEQ ID NO 43	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
My109.txt	SEQ ID NO 44	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
My200.txt	SEQ ID NO 45	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
My207.txt	SEQ ID NO 46	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
My209.txt	SEQ ID NO 47	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M122.txt	SEQ ID NO 48	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M123.txt	SEQ ID NO 49	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M124.txt	SEQ ID NO 50	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
Atcc3-for.txt	SEQ ID NO 51	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M53.txt	SEQ ID NO 52	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M54.txt	SEQ ID NO 53	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M55.txt	SEQ ID NO 54	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M56.txt	SEQ ID NO 55	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG
M74(Mav12).txt	SEQ ID NO 56	CGATCAAGGAGGTTCTTGGGACCCAGCCAGCTG

Table 1
BASE NOS 61-120

M177.txt	SEQID NO 57	CGATCAAGGAGTTCCTTCGGCAGCAGGCGCAGGCTG
M118.txt	SEQID NO 58	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M1221.txt	SEQID NO 59	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M1223.txt	SEQID NO 60	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M1225.txt	SEQID NO 61	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M1341.txt	SEQID NO 62	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M1715.txt	SEQID NO 63	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M1470.txt	SEQID NO 64	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
Atcc4-90.txt	SEQID NO 65	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
ATCC4-0-Gord.txt	SEQID NO 66	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M178(12).txt	SEQID NO 67	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M179(jd).txt	SEQID NO 68	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M180(lg).txt	SEQID NO 69	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M181(11).txt	SEQID NO 70	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M182(em).txt	SEQID NO 71	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M183(mb).txt	SEQID NO 72	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M184(ow).txt	SEQID NO 73	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M185(lb).txt	SEQID NO 74	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M186(rb).txt	SEQID NO 75	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M187(wm).txt	SEQID NO 76	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M190(gordDB).txt	SEQID NO 77	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M126.txt	SEQID NO 78	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M128.txt	SEQID NO 79	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M1303.txt	SEQID NO 80	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M1475.txt	SEQID NO 81	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M1476.txt	SEQID NO 82	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M1830.txt	SEQID NO 83	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
Atcc5-int.txt	SEQID NO 84	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
ATCC5-0int.txt	SEQID NO 85	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M18.txt	SEQID NO 86	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M19.txt	SEQID NO 87	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M20.txt	SEQID NO 88	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M21.txt	SEQID NO 89	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M22.txt	SEQID NO 90	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M23.txt	SEQID NO 91	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M24.txt	SEQID NO 92	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M25.txt	SEQID NO 93	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M26.txt	SEQID NO 94	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M27.txt	SEQID NO 95	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M28.txt	SEQID NO 96	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M107.txt	SEQID NO 97	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M107.txt	SEQID NO 98	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M112.txt	SEQID NO 99	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M1312.txt	SEQID NO 100	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
Atcc6-kan.txt	SEQID NO 101	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
ATCC6-0kan.txt	SEQID NO 102	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M1.txt	SEQID NO 103	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M2.txt	SEQID NO 104	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M3.txt	SEQID NO 105	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M4.txt	SEQID NO 106	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M5.txt	SEQID NO 107	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M6.txt	SEQID NO 108	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M7.txt	SEQID NO 109	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M8.txt	SEQID NO 110	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M9.txt	SEQID NO 111	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG
M10.txt	SEQID NO 112	CGATCAAGGAGTTCCTTCGGCAGCAGGCTG

Table 1

SEQ ID NO 113	SEQ ID NO 114	SEQ ID NO 115	SEQ ID NO 116	SEQ ID NO 117	SEQ ID NO 118	SEQ ID NO 119	SEQ ID NO 120	SEQ ID NO 121	SEQ ID NO 122	SEQ ID NO 123	SEQ ID NO 124	SEQ ID NO 125	SEQ ID NO 126	SEQ ID NO 127	SEQ ID NO 128	SEQ ID NO 129	SEQ ID NO 130	SEQ ID NO 131	SEQ ID NO 132	SEQ ID NO 133	SEQ ID NO 134	SEQ ID NO 135	SEQ ID NO 136	SEQ ID NO 137	SEQ ID NO 138	SEQ ID NO 139	SEQ ID NO 140	SEQ ID NO 141	SEQ ID NO 142	SEQ ID NO 143	SEQ ID NO 144	SEQ ID NO 145	SEQ ID NO 146	SEQ ID NO 147	SEQ ID NO 148	SEQ ID NO 149	SEQ ID NO 150	SEQ ID NO 151	SEQ ID NO 152	SEQ ID NO 153	SEQ ID NO 154	SEQ ID NO 155	SEQ ID NO 156	SEQ ID NO 157	SEQ ID NO 158	SEQ ID NO 159	SEQ ID NO 160	SEQ ID NO 161	SEQ ID NO 162	SEQ ID NO 163	SEQ ID NO 164	SEQ ID NO 165	SEQ ID NO 166	SEQ ID NO 167	SEQ ID NO 168
Atc10-113	Atc10-114	Atc10-115	Atc10-116	Atc10-117	Atc10-118	Atc10-119	Atc10-120	Atc10-121	Atc10-122	Atc10-123	Atc10-124	Atc10-125	Atc10-126	Atc10-127	Atc10-128	Atc10-129	Atc10-130	Atc10-131	Atc10-132	Atc10-133	Atc10-134	Atc10-135	Atc10-136	Atc10-137	Atc10-138	Atc10-139	Atc10-140	Atc10-141	Atc10-142	Atc10-143	Atc10-144	Atc10-145	Atc10-146	Atc10-147	Atc10-148	Atc10-149	Atc10-150	Atc10-151	Atc10-152	Atc10-153	Atc10-154	Atc10-155	Atc10-156	Atc10-157	Atc10-158	Atc10-159	Atc10-160	Atc10-161	Atc10-162	Atc10-163	Atc10-164	Atc10-165	Atc10-166	Atc10-167	Atc10-168
Atc10-113	Atc10-114	Atc10-115	Atc10-116	Atc10-117	Atc10-118	Atc10-119	Atc10-120	Atc10-121	Atc10-122	Atc10-123	Atc10-124	Atc10-125	Atc10-126	Atc10-127	Atc10-128	Atc10-129	Atc10-130	Atc10-131	Atc10-132	Atc10-133	Atc10-134	Atc10-135	Atc10-136	Atc10-137	Atc10-138	Atc10-139	Atc10-140	Atc10-141	Atc10-142	Atc10-143	Atc10-144	Atc10-145	Atc10-146	Atc10-147	Atc10-148	Atc10-149	Atc10-150	Atc10-151	Atc10-152	Atc10-153	Atc10-154	Atc10-155	Atc10-156	Atc10-157	Atc10-158	Atc10-159	Atc10-160	Atc10-161	Atc10-162	Atc10-163	Atc10-164	Atc10-165	Atc10-166	Atc10-167	Atc10-168

Table 1
BASE NOS 61-120

M38. txt	SEQ ID NO 169	CGATCAAGGAGTTCCTTCGGCACCAAGCCAGGCT	70	80	90	100	110	120
M39. txt	SEQ ID NO 170	CGATCAAGGAGTTCCTTCGGCACCAAGCCAGGCT						
M40. txt	SEQ ID NO 171	CGATCAAGGAGTTCCTTCGGCACCAAGCCAGGCT						
M41. txt	SEQ ID NO 172	CGATCAAGGAGTTCCTTCGGCACCAAGCCAGGCT						
M42. txt	SEQ ID NO 173	CGATCAAGGAGTTCCTTCGGCACCAAGCCAGGCT						
M43. txt	SEQ ID NO 174	CGATCAAGGAGTTCCTTCGGCACCAAGCCAGGCT						
M44. txt	SEQ ID NO 175	CGATCAAGGAGTTCCTTCGGCACCAAGCCAGGCT						
M45. txt	SEQ ID NO 176	CGATCAAGGAGTTCCTTCGGCACCAAGCCAGGCT						
M46. txt	SEQ ID NO 177	CGATCAAGGAGTTCCTTCGGCACCAAGCCAGGCT						
M47. txt	SEQ ID NO 178	CGATCAAGGAGTTCCTTCGGCACCAAGCCAGGCT						
M68 (Mar6). txt	SEQ ID NO 179	CGATCAAGGAGTTCCTTCGGCACCAAGCCAGGCT						
M89. txt	SEQ ID NO 180	CGATCAAGGAGTTCCTTCGGCACCAAGCCAGGCT						
M66 (Mar4). txt	SEQ ID NO 181	CGATCAAGGAGTTCCTTCGGCACCAAGCCAGGCT						

Table 1

ATC99-Meth.txt	SEQ ID NO 1
MT621.txt	SEQ ID NO 2
ATC61-av.txt	SEQ ID NO 3
M29.txt	SEQ ID NO 4
M30.txt	SEQ ID NO 5
M31.txt	SEQ ID NO 6
M32.txt	SEQ ID NO 7
M33.txt	SEQ ID NO 8
M34.txt	SEQ ID NO 9
M48-new.txt	SEQ ID NO 10
M49.txt	SEQ ID NO 11
M64(Mav2).txt	SEQ ID NO 12
M65(Mav3).txt	SEQ ID NO 13
M67(Mav5).txt	SEQ ID NO 14
M69(Mav7).txt	SEQ ID NO 15
M71(Mav9).txt	SEQ ID NO 16
M91.txt	SEQ ID NO 17
M94.txt	SEQ ID NO 18
M95.txt	SEQ ID NO 19
M96.txt	SEQ ID NO 20
M101.txt	SEQ ID NO 21
M102.txt	SEQ ID NO 22
M104.txt	SEQ ID NO 23
M105.txt	SEQ ID NO 24
M106.txt	SEQ ID NO 25
MY111.txt	SEQ ID NO 26
M76.txt	SEQ ID NO 27
ATC62-chnelnew.txt	SEQ ID NO 28
M10.txt	SEQ ID NO 29
M11-662.txt	SEQ ID NO 30
M12.txt	SEQ ID NO 31
M13_2_662.txt	SEQ ID NO 32
M14.txt	SEQ ID NO 33
M15.txt	SEQ ID NO 34
M16.txt	SEQ ID NO 35
M17_2_662.txt	SEQ ID NO 36
M18.txt	SEQ ID NO 37
M19.txt	SEQ ID NO 38
M200.txt	SEQ ID NO 39
MT209.txt	SEQ ID NO 40
M122.txt	SEQ ID NO 41
M123.txt	SEQ ID NO 42
M124.txt	SEQ ID NO 43
ATC63-for.txt	SEQ ID NO 44
M53.txt	SEQ ID NO 45
M54.txt	SEQ ID NO 46
M55.txt	SEQ ID NO 47
M56.txt	SEQ ID NO 48
M74(Mav12).txt	SEQ ID NO 49
	SEQ ID NO 50
	SEQ ID NO 51
	SEQ ID NO 52
	SEQ ID NO 53
	SEQ ID NO 54
	SEQ ID NO 55
	SEQ ID NO 56

Table 1

M77.txt	SEQ ID NO 97
M118.txt	SEQ ID NO 98
M721.txt	SEQ ID NO 99
M723.txt	SEQ ID NO 100
M725.txt	SEQ ID NO 101
M731.txt	SEQ ID NO 102
M734.txt	SEQ ID NO 103
M715.txt	SEQ ID NO 104
M7470.txt	SEQ ID NO 105
Atcc6-go.txt	SEQ ID NO 106
ATCC4-O-Gord.txt	SEQ ID NO 107
M78(1)s.txt	SEQ ID NO 108
M79(j)d.txt	SEQ ID NO 109
M80(1)g.txt	SEQ ID NO 110
M81(1)l.txt	SEQ ID NO 111
M82(r)m.txt	SEQ ID NO 112
M83(m)b.txt	SEQ ID NO 113
M84(o)u.txt	SEQ ID NO 114
M85(1)b.txt	SEQ ID NO 115
M86(r)b.txt	SEQ ID NO 116
M87(w)l.txt	SEQ ID NO 117
H90(gordB).txt	SEQ ID NO 118
m126.txt	SEQ ID NO 119
m128.txt	SEQ ID NO 120
M103.txt	SEQ ID NO 121
M1475.txt	SEQ ID NO 122
M1476.txt	SEQ ID NO 123
M1830.txt	SEQ ID NO 124
Atcc5-int.txt	SEQ ID NO 125
ATCC5-Oint.txt	SEQ ID NO 126
M118.txt	SEQ ID NO 127
M119.txt	SEQ ID NO 128
M20.txt	SEQ ID NO 129
M21.txt	SEQ ID NO 130
M22.txt	SEQ ID NO 131
M23.txt	SEQ ID NO 132
M24.txt	SEQ ID NO 133
M25.txt	SEQ ID NO 134
M26.txt	SEQ ID NO 135
M27.txt	SEQ ID NO 136
M28.txt	SEQ ID NO 137
M107.txt	SEQ ID NO 138
M107.txt	SEQ ID NO 139
M112.txt	SEQ ID NO 140
M132.txt	SEQ ID NO 141
Atcc6-kan.txt	SEQ ID NO 142
ATCC6-OKan.txt	SEQ ID NO 143
M1.txt	SEQ ID NO 144
M2.txt	SEQ ID NO 145
M3.txt	SEQ ID NO 146
M4.txt	SEQ ID NO 147
M6.txt	SEQ ID NO 148
M7.txt	SEQ ID NO 149
M9.txt	SEQ ID NO 150
M57.txt	SEQ ID NO 151
M58.txt	SEQ ID NO 152
M59.txt	SEQ ID NO 153

[illegible]

Table 1

M60. txt	SEQ ID NO 113
M61. txt	SEQ ID NO 114
M62. txt	SEQ ID NO 115
M106. txt	SEQ ID NO 116
MY216. txt	SEQ ID NO 117
MY218. txt	SEQ ID NO 118
MY226. txt	SEQ ID NO 119
M109. txt	SEQ ID NO 120
M111. txt	SEQ ID NO 121
M112. txt	SEQ ID NO 122
M113. txt	SEQ ID NO 123
M114. txt	SEQ ID NO 124
MY325. txt	SEQ ID NO 125
MY718. txt	SEQ ID NO 126
MY214. txt	SEQ ID NO 127
MY224. txt	SEQ ID NO 128
MY244. txt	SEQ ID NO 129
MY339. txt	SEQ ID NO 130
MY343. txt	SEQ ID NO 131
MY458. txt	SEQ ID NO 132
MY809. txt	SEQ ID NO 133
MY817. txt	SEQ ID NO 134
MY821. txt	SEQ ID NO 135
MY824. txt	SEQ ID NO 136
MY102. txt	SEQ ID NO 137
MY105. txt	SEQ ID NO 138
MY251. txt	SEQ ID NO 139
MY256. txt	SEQ ID NO 140
MY294. txt	SEQ ID NO 141
MY354. txt	SEQ ID NO 142
ATCC7-sec. txt	SEQ ID NO 143
ATCC7-082c. txt	SEQ ID NO 144
MY121. txt	SEQ ID NO 145
MY249. txt	SEQ ID NO 146
MY372. txt	SEQ ID NO 147
MY378. txt	SEQ ID NO 148
MY484. txt	SEQ ID NO 149
MY556. txt	SEQ ID NO 150
MY563. txt	SEQ ID NO 151
MY586. txt	SEQ ID NO 152
Atcc8-ana. txt	SEQ ID NO 153
M35. txt	SEQ ID NO 154
M36. txt	SEQ ID NO 155
M37. txt	SEQ ID NO 156
M125. txt	SEQ ID NO 157
MY143. txt	SEQ ID NO 158
MY104. txt	SEQ ID NO 159
MY196. txt	SEQ ID NO 160
MY357. txt	SEQ ID NO 161
MY358. txt	SEQ ID NO 162
MY480. txt	SEQ ID NO 163
MY712. txt	SEQ ID NO 164
MY491. txt	SEQ ID NO 165
MY497. txt	SEQ ID NO 166
MY816. txt	SEQ ID NO 167
Atcc10-ana. txt	SEQ ID NO 168

[illegible]

Table 1

H30. txt	SEQ ID NO 166
H39. txt	SEQ ID NO 170
M40. txt	SEQ ID NO 171
M41. txt	SEQ ID NO 172
M42. txt	SEQ ID NO 173
M43. txt	SEQ ID NO 174
M44. txt	SEQ ID NO 175
M45. txt	SEQ ID NO 176
M46. txt	SEQ ID NO 177
M47. txt	SEQ ID NO 178
M69 (Mav6). txt	SEQ ID NO 179
H89. txt	SEQ ID NO 180
M66 (Mav4). txt	SEQ ID NO 181

Table 1
BASE NOS 181-240

ATCC9-Meb. txt	SEQ ID NO 1	AGCGTGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
MY621. txt	SEQ ID NO 2	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
Atcc1-av. txt	SEQ ID NO 3	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M29. txt	SEQ ID NO 4	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M30. txt	SEQ ID NO 5	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M31. txt	SEQ ID NO 6	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M32. txt	SEQ ID NO 7	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M33. txt	SEQ ID NO 8	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M34. txt	SEQ ID NO 9	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M48-new. txt	SEQ ID NO 10	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M49. txt	SEQ ID NO 11	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M64(Mav2). txt	SEQ ID NO 12	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M65(Mav3). txt	SEQ ID NO 13	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M67(Mav5). txt	SEQ ID NO 14	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M69(Mav7). txt	SEQ ID NO 15	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M71(Mav9). txt	SEQ ID NO 16	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M91. txt	SEQ ID NO 17	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M94. txt	SEQ ID NO 18	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M95. txt	SEQ ID NO 19	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M96. txt	SEQ ID NO 20	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M100. txt	SEQ ID NO 21	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M101. txt	SEQ ID NO 22	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M102. txt	SEQ ID NO 23	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M104. txt	SEQ ID NO 24	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M105. txt	SEQ ID NO 25	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M106. txt	SEQ ID NO 26	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
MY111. txt	SEQ ID NO 27	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M76. txt	SEQ ID NO 28	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
MY451. txt	SEQ ID NO 29	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
ATCC2-cholesterol. txt	SEQ ID NO 30	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M10. txt	SEQ ID NO 31	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M11-662. txt	SEQ ID NO 32	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M12. txt	SEQ ID NO 33	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M13_2_662. txt	SEQ ID NO 34	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M14. txt	SEQ ID NO 35	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M15. txt	SEQ ID NO 36	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M16. txt	SEQ ID NO 37	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M17_2_662. txt	SEQ ID NO 38	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M50. txt	SEQ ID NO 39	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M51. txt	SEQ ID NO 40	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M115. txt	SEQ ID NO 41	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M116. txt	SEQ ID NO 42	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M119. txt	SEQ ID NO 43	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
MY109. txt	SEQ ID NO 44	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
MY200. txt	SEQ ID NO 45	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
MY207. txt	SEQ ID NO 46	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
MY209. txt	SEQ ID NO 47	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M122. txt	SEQ ID NO 48	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M123. txt	SEQ ID NO 49	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M124. txt	SEQ ID NO 50	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
Atcc3-for. txt	SEQ ID NO 51	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M53. txt	SEQ ID NO 52	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M54. txt	SEQ ID NO 53	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M55. txt	SEQ ID NO 54	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M56. txt	SEQ ID NO 55	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA
M74 (Mav12). txt	SEQ ID NO 56	AGCGGGCGGGGCTGGAGGTCCGCGACGTCGACCCGTCGACCTACGGCCGGATGTGCCCGA

Table 1

H77.txt
 M118.txt
 MY221.txt
 MY223.txt
 MY225.txt
 MY341.txt
 MY715.txt
 MY470.txt
 Atcc4-go.txt
 ATCC4-0-Gord.txt
 M78(1x).txt
 M79(jd).txt
 M80(lg).txt
 M81(11).txt
 M82(em).txt
 M83(mab).txt
 M84(ow).txt
 M85(1b).txt
 M86(lrb).txt
 M87(wr).txt
 M90(gorddb).txt
 m126.txt
 M128.txt
 My103.txt
 MY475.txt
 MY476.txt
 MY830.txt
 Atcc5-int.txt
 ATCC5-0int.txt
 M18.txt
 M19.txt
 M20.txt
 M21.txt
 M22.txt
 M23.txt
 M24.txt
 M25.txt
 M26.txt
 M27.txt
 M28.txt
 M107.txt
 MY107.txt
 MY112.txt
 MY312.txt
 Atcc6-kan.txt
 ATCC6-0kan.txt
 M1.txt
 M2.txt
 M3.txt
 M4.txt
 M6.txt
 M7.txt
 M9.txt
 M57.txt
 M58.txt
 M59.txt
 SEQ ID NO 57
 SEQ ID NO 58
 SEQ ID NO 59
 SEQ ID NO 60
 SEQ ID NO 61
 SEQ ID NO 62
 SEQ ID NO 63
 SEQ ID NO 64
 SEQ ID NO 65
 SEQ ID NO 66
 SEQ ID NO 67
 SEQ ID NO 68
 SEQ ID NO 69
 SEQ ID NO 70
 SEQ ID NO 71
 SEQ ID NO 72
 SEQ ID NO 73
 SEQ ID NO 74
 SEQ ID NO 75
 SEQ ID NO 76
 SEQ ID NO 77
 SEQ ID NO 78
 SEQ ID NO 79
 SEQ ID NO 80
 SEQ ID NO 81
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 SEQ ID NO 83
 SEQ ID NO 84
 SEQ ID NO 85
 SEQ ID NO 86
 SEQ ID NO 87
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 SEQ ID NO 91
 SEQ ID NO 92
 SEQ ID NO 93
 SEQ ID NO 94
 SEQ ID NO 95
 SEQ ID NO 96
 SEQ ID NO 97
 SEQ ID NO 98
 SEQ ID NO 99
 SEQ ID NO 100
 SEQ ID NO 101
 SEQ ID NO 102
 SEQ ID NO 103
 SEQ ID NO 104
 SEQ ID NO 105
 SEQ ID NO 106
 SEQ ID NO 107
 SEQ ID NO 108
 SEQ ID NO 109
 SEQ ID NO 110
 SEQ ID NO 111
 SEQ ID NO 112

Table 1

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SEQ ID NO 117
SEQ ID NO 118
SEQ ID NO 119
SEQ ID NO 120
SEQ ID NO 121
SEQ ID NO 122
SEQ ID NO 123
SEQ ID NO 124
SEQ ID NO 125
SEQ ID NO 126
SEQ ID NO 127
SEQ ID NO 128
SEQ ID NO 129
SEQ ID NO 130
SEQ ID NO 131
SEQ ID NO 132
SEQ ID NO 133
SEQ ID NO 134
SEQ ID NO 135
SEQ ID NO 136
SEQ ID NO 137
SEQ ID NO 138
SEQ ID NO 139
SEQ ID NO 140
SEQ ID NO 141
SEQ ID NO 142
SEQ ID NO 143
SEQ ID NO 144
SEQ ID NO 145
SEQ ID NO 146
SEQ ID NO 147
SEQ ID NO 148
SEQ ID NO 149
SEQ ID NO 150
SEQ ID NO 151
SEQ ID NO 152
SEQ ID NO 153
SEQ ID NO 154
SEQ ID NO 155
SEQ ID NO 156
SEQ ID NO 157
SEQ ID NO 158
SEQ ID NO 159
SEQ ID NO 160
SEQ ID NO 161
SEQ ID NO 162
SEQ ID NO 163
SEQ ID NO 164
SEQ ID NO 165
SEQ ID NO 166
SEQ ID NO 167
SEQ ID NO 168
Atcc10-rop.txt
Atcc8-amo.txt
M35.txt
M36.txt
M37.txt
My106.txt
My216.txt
My218.txt
My226.txt
My109.txt
My111.txt
My112.txt
My113.txt
My114.txt
My325.txt
My7718.txt
My214.txt
My224.txt
My244.txt
My339.txt
My343.txt
My458.txt
My809.txt
My1817.txt
My821.txt
My824.txt
My105.txt
My251.txt
My256.txt
My294.txt
My354.txt
AtccC7-Secr.txt
AtccC7-Oscf.txt
My121.txt
My249.txt
My372.txt
My378.txt
My484.txt
My556.txt
My563.txt
My586.txt
Atcc8-amo.txt
M35.txt
M36.txt
M37.txt
My143.txt
My104.txt
My196.txt
My357.txt
My358.txt
My480.txt
My212.txt
My491.txt
My497.txt
My816.txt

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Table 1
BASE NOS 181-240

M38. txt	SEQ ID NO 169	AGCG	GCCGGGGCTGGAGGTCGG	GACGTCAC	CG	CAGTACGGCCGGGATGTGCCCGA	210
M39. txt	SEQ ID NO 170	AGCG	GCCGGGGCTGGAGGTCGG	GACGTCAC	CG	CAGTACGGCCGGGATGTGCCCGA	220
M40. txt	SEQ ID NO 171	AGCG	GCCGGGGCTGGAGGTCGG	GACGTCAC	CG	CAGTACGGCCGGGATGTGCCCGA	230
M41. txt	SEQ ID NO 172	AGCG	GCCGGGGCTGGAGGTCGG	GACGTCAC	CG	CAGTACGGCCGGGATGTGCCCGA	240
M42. txt	SEQ ID NO 173	AGCG	GCCGGGGCTGGAGGTCGG	GACGTCAC	CG	CAGTACGGCCGGGATGTGCCCGA	250
M43. txt	SEQ ID NO 174	AGCG	GCCGGGGCTGGAGGTCGG	GACGTCAC	CG	CAGTACGGCCGGGATGTGCCCGA	260
M44. txt	SEQ ID NO 175	AGCG	GCCGGGGCTGGAGGTCGG	GACGTCAC	CG	CAGTACGGCCGGGATGTGCCCGA	270
M45. txt	SEQ ID NO 176	AGCG	GCCGGGGCTGGAGGTCGG	GACGTCAC	CG	CAGTACGGCCGGGATGTGCCCGA	280
M46. txt	SEQ ID NO 177	AGCG	GCCGGGGCTGGAGGTCGG	GACGTCAC	CG	CAGTACGGCCGGGATGTGCCCGA	290
M47. txt	SEQ ID NO 178	AGCG	GCCGGGGCTGGAGGTCGG	GACGTCAC	CG	CAGTACGGCCGGGATGTGCCCGA	300
M48 (May6). txt	SEQ ID NO 179	AGCG	GCCGGGGCTGGAGGTCGG	GACGTCAC	CG	CAGTACGGCCGGGATGTGCCCGA	310
M49. txt	SEQ ID NO 180	AGCG	GCCGGGGCTGGAGGTCGG	GACGTCAC	CG	CAGTACGGCCGGGATGTGCCCGA	320
M55 (May4). txt	SEQ ID NO 181	AGCG	GCCGGGGCTGGAGGTCGG	GACGTCAC	CG	CAGTACGGCCGGGATGTGCCCGA	330

Table 1

SEQ ID NO 1	SEQ ID NO 2	SEQ ID NO 3	SEQ ID NO 4	SEQ ID NO 5	SEQ ID NO 6	SEQ ID NO 7	SEQ ID NO 8	SEQ ID NO 9	SEQ ID NO 10	SEQ ID NO 11	SEQ ID NO 12	SEQ ID NO 13	SEQ ID NO 14	SEQ ID NO 15	SEQ ID NO 16	SEQ ID NO 17	SEQ ID NO 18	SEQ ID NO 19	SEQ ID NO 20	SEQ ID NO 21	SEQ ID NO 22	SEQ ID NO 23	SEQ ID NO 24	SEQ ID NO 25	SEQ ID NO 26	SEQ ID NO 27	SEQ ID NO 28	SEQ ID NO 29	SEQ ID NO 30	SEQ ID NO 31	SEQ ID NO 32	SEQ ID NO 33	SEQ ID NO 34	SEQ ID NO 35	SEQ ID NO 36	SEQ ID NO 37	SEQ ID NO 38	SEQ ID NO 39	SEQ ID NO 40	SEQ ID NO 41	SEQ ID NO 42	SEQ ID NO 43	SEQ ID NO 44	SEQ ID NO 45	SEQ ID NO 46	SEQ ID NO 47	SEQ ID NO 48	SEQ ID NO 49	SEQ ID NO 50	SEQ ID NO 51	SEQ ID NO 52	SEQ ID NO 53	SEQ ID NO 54	SEQ ID NO 55	SEQ ID NO 56
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Table 1

M77.txt	SEQ ID NO 57
M119.txt	SEQ ID NO 58
MY221.txt	SEQ ID NO 59
MY223.txt	SEQ ID NO 60
MY225.txt	SEQ ID NO 61
MY341.txt	SEQ ID NO 62
MY715.txt	SEQ ID NO 63
MY770.txt	SEQ ID NO 64
ATCC4-90.txt	SEQ ID NO 65
ATCC4-0-Gord.txt	SEQ ID NO 66
M78(1st).txt	SEQ ID NO 67
M79(3rd).txt	SEQ ID NO 68
M80(1g).txt	SEQ ID NO 69
M81(1l).txt	SEQ ID NO 70
M82(1m).txt	SEQ ID NO 71
M83(1nb).txt	SEQ ID NO 72
M84(1ow).txt	SEQ ID NO 73
M85(1b).txt	SEQ ID NO 74
M86(1zb).txt	SEQ ID NO 75
M87(1wn).txt	SEQ ID NO 76
M90(gordDB).txt	SEQ ID NO 77
m126.txt	SEQ ID NO 78
M128.txt	SEQ ID NO 79
MY103.txt	SEQ ID NO 80
MY175.txt	SEQ ID NO 81
MY176.txt	SEQ ID NO 82
MY830.txt	SEQ ID NO 83
Atcc5-Int.txt	SEQ ID NO 84
ATCC5-0Int.txt	SEQ ID NO 85
M18.txt	SEQ ID NO 86
M19.txt	SEQ ID NO 87
M20.txt	SEQ ID NO 88
M21.txt	SEQ ID NO 89
M22.txt	SEQ ID NO 90
M23.txt	SEQ ID NO 91
M24.txt	SEQ ID NO 92
M25.txt	SEQ ID NO 93
M26.txt	SEQ ID NO 94
M27.txt	SEQ ID NO 95
M28.txt	SEQ ID NO 96
M107.txt	SEQ ID NO 97
MY107.txt	SEQ ID NO 98
MY112.txt	SEQ ID NO 99
MY312.txt	SEQ ID NO 100
Atcc6-kan.txt	SEQ ID NO 101
ATCC6-ORan.txt	SEQ ID NO 102
M1.txt	SEQ ID NO 103
M2.txt	SEQ ID NO 104
M3.txt	SEQ ID NO 105
M4.txt	SEQ ID NO 106
M6.txt	SEQ ID NO 107
M7.txt	SEQ ID NO 108
M9.txt	SEQ ID NO 109
M57.txt	SEQ ID NO 110
M59.txt	SEQ ID NO 111
M59.txt	SEQ ID NO 112

Table 1

SEQ ID NO 113	M60. txt
SEQ ID NO 114	M61. txt
SEQ ID NO 115	M62. txt
SEQ ID NO 116	MY106. txt
SEQ ID NO 117	MY216. txt
SEQ ID NO 118	MY218. txt
SEQ ID NO 119	MY226. txt
SEQ ID NO 120	M109. txt
SEQ ID NO 121	M111. txt
SEQ ID NO 122	M112. txt
SEQ ID NO 123	M113. txt
SEQ ID NO 124	M114. txt
SEQ ID NO 125	MY325. txt
SEQ ID NO 126	MY718. txt
SEQ ID NO 127	MY214. txt
SEQ ID NO 128	MY224. txt
SEQ ID NO 129	MY244. txt
SEQ ID NO 130	MY339. txt
SEQ ID NO 131	MY343. txt
SEQ ID NO 132	MY458. txt
SEQ ID NO 133	MY809. txt
SEQ ID NO 134	MY817. txt
SEQ ID NO 135	MY821. txt
SEQ ID NO 136	MY824. txt
SEQ ID NO 137	MY102. txt
SEQ ID NO 138	MY105. txt
SEQ ID NO 139	MY251. txt
SEQ ID NO 140	MY256. txt
SEQ ID NO 141	MY294. txt
SEQ ID NO 142	MY354. txt
SEQ ID NO 143	ACC7-acc. txt
SEQ ID NO 144	ACC7-0acc. txt
SEQ ID NO 145	MY121. txt
SEQ ID NO 146	MY249. txt
SEQ ID NO 147	MY372. txt
SEQ ID NO 148	MY378. txt
SEQ ID NO 149	MY484. txt
SEQ ID NO 150	MY556. txt
SEQ ID NO 151	MY563. txt
SEQ ID NO 152	MY586. txt
SEQ ID NO 153	ACC8-smo. txt
SEQ ID NO 154	MY35. txt
SEQ ID NO 155	MY36. txt
SEQ ID NO 156	MY37. txt
SEQ ID NO 157	mi25. txt
SEQ ID NO 158	MY143. txt
SEQ ID NO 159	MY104. txt
SEQ ID NO 160	MY196. txt
SEQ ID NO 161	MY357. txt
SEQ ID NO 162	MY358. txt
SEQ ID NO 163	MY480. txt
SEQ ID NO 164	MY212. txt
SEQ ID NO 165	MY491. txt
SEQ ID NO 166	MY497. txt
SEQ ID NO 167	MY816. txt
SEQ ID NO 168	acc10-ren. txt

Table 1
BASE NOS 241-300

M38.txt	SEQ ID NO 169	TCGAAACCCCGAGGGGCCCAACATCGGGTTGATCGGGCTCGCTGTCTCGGGTGTACGCCGCCGGG	250	260	270	280	290	300
M39.txt	SEQ ID NO 170	TCGAAACCCCGAGGGGCCCAACATCGGGTTGATCGGGCTCGCTGTCTCGGGTGTACGCCGCCGGG						
M40.txt	SEQ ID NO 171	TCGAAACCCCGAGGGGCCCAACATCGGGTTGATCGGGCTCGCTGTCTCGGGTGTACGCCGCCGGG						
M41.txt	SEQ ID NO 172	TCGAAACCCCGAGGGGCCCAACATCGGGTTGATCGGGCTCGCTGTCTCGGGTGTACGCCGCCGGG						
M42.txt	SEQ ID NO 173	TCGAAACCCCGAGGGGCCCAACATCGGGTTGATCGGGCTCGCTGTCTCGGGTGTACGCCGCCGGG						
M43.txt	SEQ ID NO 174	TCGAAACCCCGAGGGGCCCAACATCGGGTTGATCGGGCTCGCTGTCTCGGGTGTACGCCGCCGGG						
M44.txt	SEQ ID NO 175	TCGAAACCCCGAGGGGCCCAACATCGGGTTGATCGGGCTCGCTGTCTCGGGTGTACGCCGCCGGG						
M45.txt	SEQ ID NO 176	TCGAAACCCCGAGGGGCCCAACATCGGGTTGATCGGGCTCGCTGTCTCGGGTGTACGCCGCCGGG						
M46.txt	SEQ ID NO 177	TCGAAACCCCGAGGGGCCCAACATCGGGTTGATCGGGCTCGCTGTCTCGGGTGTACGCCGCCGGG						
M47.txt	SEQ ID NO 178	TCGAAACCCCGAGGGGCCCAACATCGGGTTGATCGGGCTCGCTGTCTCGGGTGTACGCCGCCGGG						
M48 (Nav6).txt	SEQ ID NO 179	TCGAAACCCCGAGGGGCCCAACATCGGGTTGATCGGGCTCGCTGTCTCGGGTGTACGCCGCCGGG						
M49.txt	SEQ ID NO 180	TCGAAACCCCGAGGGGCCCAACATCGGGTTGATCGGGCTCGCTGTCTCGGGTGTACGCCGCCGGG						
M56 (Nav4).txt	SEQ ID NO 181	TCGAAACCCCGAGGGGCCCAACATCGGGTTGATCGGGCTCGCTGTCTCGGGTGTACGCCGCCGGG						

Table 1

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BASE NOS 301-360

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Table 1

SEQ ID NO 113	SEQ ID NO 114	SEQ ID NO 115	SEQ ID NO 116	SEQ ID NO 117	SEQ ID NO 118	SEQ ID NO 119	SEQ ID NO 120	SEQ ID NO 121	SEQ ID NO 122	SEQ ID NO 123	SEQ ID NO 124	SEQ ID NO 125	SEQ ID NO 126	SEQ ID NO 127	SEQ ID NO 128	SEQ ID NO 129	SEQ ID NO 130	SEQ ID NO 131	SEQ ID NO 132	SEQ ID NO 133	SEQ ID NO 134	SEQ ID NO 135	SEQ ID NO 136	SEQ ID NO 137	SEQ ID NO 138	SEQ ID NO 139	SEQ ID NO 140	SEQ ID NO 141	SEQ ID NO 142	SEQ ID NO 143	SEQ ID NO 144	SEQ ID NO 145	SEQ ID NO 146	SEQ ID NO 147	SEQ ID NO 148	SEQ ID NO 149	SEQ ID NO 150	SEQ ID NO 151	SEQ ID NO 152	SEQ ID NO 153	SEQ ID NO 154	SEQ ID NO 155	SEQ ID NO 156	SEQ ID NO 157	SEQ ID NO 158	SEQ ID NO 159	SEQ ID NO 160	SEQ ID NO 161	SEQ ID NO 162	SEQ ID NO 163	SEQ ID NO 164	SEQ ID NO 165	SEQ ID NO 166	SEQ ID NO 167	SEQ ID NO 168
M60. txt	M61. txt	M62. txt	MY106. txt	MY216. txt	MY218. txt	MY226. txt	M109. txt	M111. txt	M112. txt	M113. txt	M114. txt	MY325. txt	MY718. txt	MY224. txt	MY244. txt	MY339. txt	MY343. txt	MY458. txt	MY809. txt	MY821. txt	MY824. txt	MY102. txt	MY105. txt	MY251. txt	MY256. txt	MY294. txt	MY354. txt	ATCC7-089. txt	ATCC7-089. txt	MY121. txt	MY249. txt	MY372. txt	MY378. txt	MY484. txt	MY556. txt	MY563. txt	MY586. txt	ATCC8-089. txt	M35. txt	M36. txt	M37. txt	m125. txt	MY143. txt	MY104. txt	MY196. txt	MY357. txt	MY358. txt	MY480. txt	MY212. txt	MY491. txt	MY497. txt	MY816. txt	ATCC10-089. txt		

[illegible]

Table 1
BASE NOS 301-360

M38. txt	SEQ ID NO 168	TCAACCCCGT	CGGGTTTCAT	GACACGCC	TACCGCAAGGTGGT	CGGGCGTGGT	ACCGCGTGGT	ACCG
M39. txt	SEQ ID NO 170	TCAACCCCGT	CGGGTTTCAT	GACACGCC	TACCGCAAGGTGGT	CGGGCGTGGT	ACCGCGTGGT	ACCG
M40. txt	SEQ ID NO 171	TCAACCCCGT	CGGGTTTCAT	GACACGCC	TACCGCAAGGTGGT	CGGGCGTGGT	ACCGCGTGGT	ACCG
M41. txt	SEQ ID NO 172	TCAACCCCGT	CGGGTTTCAT	GACACGCC	TACCGCAAGGTGGT	CGGGCGTGGT	ACCGCGTGGT	ACCG
M42. txt	SEQ ID NO 173	TCAACCCCGT	CGGGTTTCAT	GACACGCC	TACCGCAAGGTGGT	CGGGCGTGGT	ACCGCGTGGT	ACCG
M43. txt	SEQ ID NO 174	TCAACCCCGT	CGGGTTTCAT	GACACGCC	TACCGCAAGGTGGT	CGGGCGTGGT	ACCGCGTGGT	ACCG
M44. txt	SEQ ID NO 175	TCAACCCCGT	CGGGTTTCAT	GACACGCC	TACCGCAAGGTGGT	CGGGCGTGGT	ACCGCGTGGT	ACCG
M45. txt	SEQ ID NO 176	TCAACCCCGT	CGGGTTTCAT	GACACGCC	TACCGCAAGGTGGT	CGGGCGTGGT	ACCGCGTGGT	ACCG
M46. txt	SEQ ID NO 177	TCAACCCCGT	CGGGTTTCAT	GACACGCC	TACCGCAAGGTGGT	CGGGCGTGGT	ACCGCGTGGT	ACCG
M47. txt	SEQ ID NO 178	TCAACCCCGT	CGGGTTTCAT	GACACGCC	TACCGCAAGGTGGT	CGGGCGTGGT	ACCGCGTGGT	ACCG
M48 (Nav6). txt	SEQ ID NO 179	TCAACCCCGT	CGGGTTTCAT	GACACGCC	TACCGCAAGGTGGT	CGGGCGTGGT	ACCGCGTGGT	ACCG
M49. txt	SEQ ID NO 180	TCAACCCCGT	CGGGTTTCAT	GACACGCC	TACCGCAAGGTGGT	CGGGCGTGGT	ACCGCGTGGT	ACCG
M56 (Nav4). txt	SEQ ID NO 181	TCAACCCCGT	CGGGTTTCAT	GACACGCC	TACCGCAAGGTGGT	CGGGCGTGGT	ACCGCGTGGT	ACCG

Table 1

SEQ ID NO 1	ATCC9-MEb.txt	SEQ ID NO 1
SEQ ID NO 2	MY621.txt	SEQ ID NO 2
SEQ ID NO 3	ATcc1-av.txt	SEQ ID NO 3
SEQ ID NO 4	M29.txt	SEQ ID NO 4
SEQ ID NO 5	M30.txt	SEQ ID NO 5
SEQ ID NO 6	M31.txt	SEQ ID NO 6
SEQ ID NO 7	M32.txt	SEQ ID NO 7
SEQ ID NO 8	M33.txt	SEQ ID NO 8
SEQ ID NO 9	M34.txt	SEQ ID NO 9
SEQ ID NO 10	M48-new.txt	SEQ ID NO 10
SEQ ID NO 11	M49.txt	SEQ ID NO 11
SEQ ID NO 12	M66(Mav2).txt	SEQ ID NO 12
SEQ ID NO 13	M165(Mav3).txt	SEQ ID NO 13
SEQ ID NO 14	M67(Mav5).txt	SEQ ID NO 14
SEQ ID NO 15	M69(Mav7).txt	SEQ ID NO 15
SEQ ID NO 16	M71(Mav9).txt	SEQ ID NO 16
SEQ ID NO 17	M91.txt	SEQ ID NO 17
SEQ ID NO 18	M94.txt	SEQ ID NO 18
SEQ ID NO 19	M95.txt	SEQ ID NO 19
SEQ ID NO 20	M96.txt	SEQ ID NO 20
SEQ ID NO 21	M100.txt	SEQ ID NO 21
SEQ ID NO 22	M101.txt	SEQ ID NO 22
SEQ ID NO 23	M102.txt	SEQ ID NO 23
SEQ ID NO 24	M104.txt	SEQ ID NO 24
SEQ ID NO 25	M105.txt	SEQ ID NO 25
SEQ ID NO 26	M106.txt	SEQ ID NO 26
SEQ ID NO 27	MY111.txt	SEQ ID NO 27
SEQ ID NO 28	MY76.txt	SEQ ID NO 28
SEQ ID NO 29	MY451.txt	SEQ ID NO 29
SEQ ID NO 30	ATCC2-chelnew.txt	SEQ ID NO 30
SEQ ID NO 31	M10.txt	SEQ ID NO 31
SEQ ID NO 32	M11-662.txt	SEQ ID NO 32
SEQ ID NO 33	M12.txt	SEQ ID NO 33
SEQ ID NO 34	M13 2 662.txt	SEQ ID NO 34
SEQ ID NO 35	M14.txt	SEQ ID NO 35
SEQ ID NO 36	M15.txt	SEQ ID NO 36
SEQ ID NO 37	M16.txt	SEQ ID NO 37
SEQ ID NO 38	M17 2 662.txt	SEQ ID NO 38
SEQ ID NO 39	M50.txt	SEQ ID NO 39
SEQ ID NO 40	M51.txt	SEQ ID NO 40
SEQ ID NO 41	M115.txt	SEQ ID NO 41
SEQ ID NO 42	M116.txt	SEQ ID NO 42
SEQ ID NO 43	M119.txt	SEQ ID NO 43
SEQ ID NO 44	MY109.txt	SEQ ID NO 44
SEQ ID NO 45	MY200.txt	SEQ ID NO 45
SEQ ID NO 46	MY207.txt	SEQ ID NO 46
SEQ ID NO 47	MY209.txt	SEQ ID NO 47
SEQ ID NO 48	M122.txt	SEQ ID NO 48
SEQ ID NO 49	M123.txt	SEQ ID NO 49
SEQ ID NO 50	M124.txt	SEQ ID NO 50
SEQ ID NO 51	ATcc3-for.txt	SEQ ID NO 51
SEQ ID NO 52	M53.txt	SEQ ID NO 52
SEQ ID NO 53	M54.txt	SEQ ID NO 53
SEQ ID NO 54	M55.txt	SEQ ID NO 54
SEQ ID NO 55	M56.txt	SEQ ID NO 55
SEQ ID NO 56	M74 (Mav12).txt	SEQ ID NO 56

H77.txt	SEQ ID NO 57
H118.txt	SEQ ID NO 58
M721.txt	SEQ ID NO 59
M723.txt	SEQ ID NO 60
M725.txt	SEQ ID NO 61
M731.txt	SEQ ID NO 62
M715.txt	SEQ ID NO 63
M747D.txt	SEQ ID NO 64
Atcc4-go.txt	SEQ ID NO 65
ATCC4-0-Gord.txt	SEQ ID NO 66
M78(1s).txt	SEQ ID NO 67
M79(1d).txt	SEQ ID NO 68
H80(1g).txt	SEQ ID NO 69
M81(11).txt	SEQ ID NO 70
M83(1m).txt	SEQ ID NO 71
M83(1m).txt	SEQ ID NO 72
M84(1w).txt	SEQ ID NO 73
M85(1b).txt	SEQ ID NO 74
M86(1rb).txt	SEQ ID NO 75
M87(1w).txt	SEQ ID NO 76
M90(gordDB).txt	SEQ ID NO 77
m126.txt	SEQ ID NO 78
H128.txt	SEQ ID NO 79
M103.txt	SEQ ID NO 80
M7475.txt	SEQ ID NO 81
M7476.txt	SEQ ID NO 82
M7830.txt	SEQ ID NO 83
Atcc5-int.txt	SEQ ID NO 84
ATCC5-0int.txt	SEQ ID NO 85
H18.txt	SEQ ID NO 86
M19.txt	SEQ ID NO 87
M20.txt	SEQ ID NO 88
M21.txt	SEQ ID NO 89
M22.txt	SEQ ID NO 90
M23.txt	SEQ ID NO 91
M24.txt	SEQ ID NO 92
M25.txt	SEQ ID NO 93
M26.txt	SEQ ID NO 94
M27.txt	SEQ ID NO 95
M28.txt	SEQ ID NO 96
M107.txt	SEQ ID NO 97
M1107.txt	SEQ ID NO 98
M112.txt	SEQ ID NO 99
M1312.txt	SEQ ID NO 100
M1312.txt	SEQ ID NO 101
Atcc6-kan.txt	SEQ ID NO 102
ATCC6-0Kan.txt	SEQ ID NO 103
M1.txt	SEQ ID NO 104
M2.txt	SEQ ID NO 105
M3.txt	SEQ ID NO 106
M4.txt	SEQ ID NO 107
M6.txt	SEQ ID NO 108
M7.txt	SEQ ID NO 109
M57.txt	SEQ ID NO 110
M58.txt	SEQ ID NO 111
M59.txt	SEQ ID NO 112

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Table 1

SEQ ID NO 113
SEQ ID NO 114
SEQ ID NO 115
SEQ ID NO 116
SEQ ID NO 117
SEQ ID NO 118
SEQ ID NO 119
SEQ ID NO 120
SEQ ID NO 121
SEQ ID NO 122
SEQ ID NO 123
SEQ ID NO 124
SEQ ID NO 125
SEQ ID NO 128
SEQ ID NO 127
SEQ ID NO 128
SEQ ID NO 129
SEQ ID NO 130
SEQ ID NO 131
SEQ ID NO 132
SEQ ID NO 133
SEQ ID NO 134
SEQ ID NO 135
SEQ ID NO 136
SEQ ID NO 137
SEQ ID NO 138
SEQ ID NO 139
SEQ ID NO 140
SEQ ID NO 141
SEQ ID NO 142
SEQ ID NO 143
SEQ ID NO 144
SEQ ID NO 145
SEQ ID NO 146
SEQ ID NO 147
SEQ ID NO 148
SEQ ID NO 149
SEQ ID NO 150
SEQ ID NO 151
SEQ ID NO 152
SEQ ID NO 153
SEQ ID NO 154
SEQ ID NO 155
SEQ ID NO 156
SEQ ID NO 157
SEQ ID NO 158
SEQ ID NO 159
SEQ ID NO 160
SEQ ID NO 161
SEQ ID NO 162
SEQ ID NO 163
SEQ ID NO 164
SEQ ID NO 165
SEQ ID NO 166
SEQ ID NO 167
SEQ ID NO 168

M60.txt
M61.txt
M62.txt
MY106.txt
MY216.txt
MY218.txt
MY226.txt
H109.txt
H111.txt
H112.txt
H113.txt
H114.txt
HY325.txt
HY325.txt
HY718.txt
Y214.txt
Y224.txt
Y244.txt
Y244.txt
Y339.txt
Y343.txt
Y459.txt
Y809.txt
Y817.txt
Y821.txt
Y824.txt
Y102.txt
Y105.txt
Y251.txt
Y256.txt
Y294.txt
Y354.txt
TCG7-seq.txt
TCG7-Defc.txt
Y121.txt
Y249.txt
Y372.txt
Y378.txt
Y484.txt
Y456.txt
Y563.txt
Y586.txt
RccB-sno.txt
H35.txt
H36.txt
H37.txt
M125.txt
M143.txt
My104.txt
MY196.txt
MY357.txt
MY358.txt
MY480.txt
MY212.txt
MY491.txt
MY816.txt
Atcc10-xop.txt

Table 1
BASE NOS 361-420

SEQ ID NO 169	M38 .txt	ACGAGATCGTGTACCTGACCGCCGACGAGGAGGACCGCCCA	GTGGTGGC	3	CAAGGCCAA	T	
SEQ ID NO 170	M39 .txt	ACGAGATCGTGTACCTGACCGCCGACGAGGAGGACCGCCCA	GTGGTGGC	3	CAAGGCCAA	T	
SEQ ID NO 171	M40 .txt	ACGAGATCGTGTACCTGACCGCCGACGAGGAGGACCGCCCA	GTGGTGGC	3	CAAGGCCAA	T	
SEQ ID NO 172	M41 .txt	ACGAGATCGTGTACCTGACCGCCGACGAGGAGGACCGCCCA	GTGGTGGC	3	CAAGGCCAA	T	
SEQ ID NO 173	M42 .txt	ACGAGATCGTGTACCTGACCGCCGACGAGGAGGACCGCCCA	GTGGTGGC	3	CAAGGCCAA	T	
SEQ ID NO 174	M43 .txt	ACGAGATCGTGTACCTGACCGCCGACGAGGAGGACCGCCCA	GTGGTGGC	3	CAAGGCCAA	T	
SEQ ID NO 175	M44 .txt	ACGAGATCGTGTACCTGACCGCCGACGAGGAGGACCGCCCA	GTGGTGGC	3	CAAGGCCAA	T	
SEQ ID NO 176	M45 .txt	ACGAGATCGTGTACCTGACCGCCGACGAGGAGGACCGCCCA	GTGGTGGC	3	CAAGGCCAA	T	
SEQ ID NO 177	M46 .txt	ACGAGATCGTGTACCTGACCGCCGACGAGGAGGACCGCCCA	GTGGTGGC	3	CAAGGCCAA	T	
SEQ ID NO 178	M47 .txt	ACGAGATCGTGTACCTGACCGCCGACGAGGAGGACCGCCCA	GTGGTGGC	3	CAAGGCCAA	T	
SEQ ID NO 179	M48 (May6) .txt	ACGAGATCGTGTACCTGACCGCCGACGAGGAGGACCGCCCA	GTGGTGGC	3	CAAGGCCAA	T	
SEQ ID NO 180	M49 .txt	ACGAGATCGTGTACCTGACCGCCGACGAGGAGGACCGCCCA	GTGGTGGC	3	CAAGGCCAA	T	
SEQ ID NO 181	M56 (May4) .txt	ACGAGATCGTGTACCTGACCGCCGACGAGGAGGACCGCCCA	GTGGTGGC	3	CAAGGCCAA	T	
		370	380	390	400	410	420

Table 1

SEQIDNO1	ATCC9-Hdb.txt
SEQIDNO2	MY621.txt
SEQIDNO3	Atcc1-av.txt
SEQIDNO4	ATCC9-Hdb.txt
SEQIDNO5	SEQIDNO3
SEQIDNO6	SEQIDNO3
SEQIDNO7	SEQIDNO3
SEQIDNO8	SEQIDNO3
SEQIDNO9	SEQIDNO3
SEQIDNO10	SEQIDNO3
SEQIDNO11	SEQIDNO3
SEQIDNO12	SEQIDNO3
SEQIDNO13	SEQIDNO3
SEQIDNO14	SEQIDNO3
SEQIDNO15	SEQIDNO3
SEQIDNO16	SEQIDNO3
SEQIDNO17	SEQIDNO3
SEQIDNO18	SEQIDNO3
SEQIDNO19	SEQIDNO3
SEQIDNO20	SEQIDNO3
SEQIDNO21	SEQIDNO3
SEQIDNO22	SEQIDNO3
SEQIDNO23	SEQIDNO3
SEQIDNO24	SEQIDNO3
SEQIDNO25	SEQIDNO3
SEQIDNO26	SEQIDNO3
SEQIDNO27	SEQIDNO3
SEQIDNO28	SEQIDNO3
SEQIDNO29	SEQIDNO3
SEQIDNO30	SEQIDNO3
SEQIDNO31	SEQIDNO3
SEQIDNO32	SEQIDNO3
SEQIDNO33	SEQIDNO3
SEQIDNO34	SEQIDNO3
SEQIDNO35	SEQIDNO3
SEQIDNO36	SEQIDNO3
SEQIDNO37	SEQIDNO3
SEQIDNO38	SEQIDNO3
SEQIDNO39	SEQIDNO3
SEQIDNO40	SEQIDNO3
SEQIDNO41	SEQIDNO3
SEQIDNO42	SEQIDNO3
SEQIDNO43	SEQIDNO3
SEQIDNO44	SEQIDNO3
SEQIDNO45	SEQIDNO3
SEQIDNO46	SEQIDNO3
SEQIDNO47	SEQIDNO3
SEQIDNO48	SEQIDNO3
SEQIDNO49	SEQIDNO3
SEQIDNO50	SEQIDNO3
SEQIDNO51	SEQIDNO3
SEQIDNO52	SEQIDNO3
SEQIDNO53	SEQIDNO3
SEQIDNO54	SEQIDNO3
SEQIDNO55	SEQIDNO3
SEQIDNO56	SEQIDNO3

Table 1

M77.txt	SEQ.D\NO.51
M118.txt	SEQ.D\NO.52
MY221.txt	SEQ.D\NO.53
MY223.txt	SEQ.D\NO.54
MY225.txt	SEQ.D\NO.55
MY331.txt	SEQ.D\NO.56
MY341.txt	SEQ.D\NO.57
MY715.txt	SEQ.D\NO.58
MY740.txt	SEQ.D\NO.59
ATCC4-go.txt	SEQ.D\NO.60
ATCC4-0-Gord.txt	SEQ.D\NO.61
M78(1a).txt	SEQ.D\NO.62
M78(1b).txt	SEQ.D\NO.63
M79(1d).txt	SEQ.D\NO.64
M80(1g).txt	SEQ.D\NO.65
M81(1l).txt	SEQ.D\NO.66
M82(1m).txt	SEQ.D\NO.67
M83(1nb).txt	SEQ.D\NO.68
M84(1ow).txt	SEQ.D\NO.69
M85(1b).txt	SEQ.D\NO.70
M86(1rb).txt	SEQ.D\NO.71
M87(1wn).txt	SEQ.D\NO.72
M90(gordDB).txt	SEQ.D\NO.73
m126.txt	SEQ.D\NO.74
M1128.txt	SEQ.D\NO.75
MY103.txt	SEQ.D\NO.76
MY475.txt	SEQ.D\NO.77
MY476.txt	SEQ.D\NO.78
MY830.txt	SEQ.D\NO.79
ATCC5-int.txt	SEQ.D\NO.80
ATCC5-Oint.txt	SEQ.D\NO.81
M18.txt	SEQ.D\NO.82
M19.txt	SEQ.D\NO.83
M20.txt	SEQ.D\NO.84
M21.txt	SEQ.D\NO.85
M22.txt	SEQ.D\NO.86
M23.txt	SEQ.D\NO.87
M24.txt	SEQ.D\NO.88
M25.txt	SEQ.D\NO.89
M26.txt	SEQ.D\NO.90
M27.txt	SEQ.D\NO.91
M28.txt	SEQ.D\NO.92
M107.txt	SEQ.D\NO.93
MY107.txt	SEQ.D\NO.94
MY112.txt	SEQ.D\NO.95
MY312.txt	SEQ.D\NO.96
ATCC6-kxn.txt	SEQ.D\NO.97
ATCC6-OKan.txt	SEQ.D\NO.98
M1.txt	SEQ.D\NO.99
M2.txt	SEQ.D\NO.100
M3.txt	SEQ.D\NO.101
M4.txt	SEQ.D\NO.102
M6.txt	SEQ.D\NO.103
M7.txt	SEQ.D\NO.104
M9.txt	SEQ.D\NO.105
M57.txt	SEQ.D\NO.106
M58.txt	SEQ.D\NO.107
M59.txt	SEQ.D\NO.108
	SEQ.D\NO.109
	SEQ.D\NO.110
	SEQ.D\NO.111
	SEQ.D\NO.112

[illegible]

Table 1.

SEQ ID NO 111	SEQ ID NO 112	SEQ ID NO 113	SEQ ID NO 114	SEQ ID NO 115	SEQ ID NO 116	SEQ ID NO 117	SEQ ID NO 118	SEQ ID NO 119	SEQ ID NO 120	SEQ ID NO 121	SEQ ID NO 122	SEQ ID NO 123	SEQ ID NO 124	SEQ ID NO 125	SEQ ID NO 126	SEQ ID NO 127	SEQ ID NO 128	SEQ ID NO 129	SEQ ID NO 130	SEQ ID NO 131	SEQ ID NO 132	SEQ ID NO 133	SEQ ID NO 134	SEQ ID NO 135	SEQ ID NO 136	SEQ ID NO 137	SEQ ID NO 138	SEQ ID NO 139	SEQ ID NO 140	SEQ ID NO 141	SEQ ID NO 142	SEQ ID NO 143	SEQ ID NO 144	SEQ ID NO 145	SEQ ID NO 146	SEQ ID NO 147	SEQ ID NO 148	SEQ ID NO 149	SEQ ID NO 150	SEQ ID NO 151	SEQ ID NO 152	SEQ ID NO 153	SEQ ID NO 154	SEQ ID NO 155	SEQ ID NO 156	SEQ ID NO 157	SEQ ID NO 158	SEQ ID NO 159	SEQ ID NO 160	SEQ ID NO 161	SEQ ID NO 162	SEQ ID NO 163	SEQ ID NO 164	SEQ ID NO 165	SEQ ID NO 166	SEQ ID NO 167	SEQ ID NO 168
My60.txt	My61.txt	My62.txt	My106.txt	My216.txt	My218.txt	My226.txt	My109.txt	My111.txt	My112.txt	My113.txt	My114.txt	My325.txt	My718.txt	My214.txt	My224.txt	My244.txt	My339.txt	My343.txt	My459.txt	My809.txt	My817.txt	My821.txt	My824.txt	My102.txt	My105.txt	My231.txt	My236.txt	My294.txt	My354.txt	Atcc7-00r.txt	ATCC7-00ck.txt	My241.txt	My249.txt	My372.txt	My378.txt	My484.txt	My556.txt	My563.txt	My586.txt	Atcc8-00e.txt	My35.txt	My36.txt	My37.txt	My125.txt	My143.txt	My194.txt	My196.txt	My357.txt	My358.txt	My480.txt	My212.txt	My491.txt	My497.txt	My816.txt	Atcc10-00p.txt		

Table 1
BASE NOS 421-480

M38.txt	SEQ ID NO 169	CGCCGATC	GA	GG	GG	CGCTTC	CGAGCCGCCG	GTGCTGGT	GC
M39.txt	SEQ ID NO 170	CGCCGATC	GA	GG	GG	CGCTTC	CGAGCCGCCG	GTGCTGGT	GC
M40.txt	SEQ ID NO 171	CGCCGATC	GA	GG	GG	CGCTTC	CGAGCCGCCG	GTGCTGGT	GC
M41.txt	SEQ ID NO 172	CGCCGATC	GA	GG	GG	CGCTTC	CGAGCCGCCG	GTGCTGGT	GC
M42.txt	SEQ ID NO 173	CGCCGATC	GA	GG	GG	CGCTTC	CGAGCCGCCG	GTGCTGGT	GC
M43.txt	SEQ ID NO 174	CGCCGATC	GA	GG	GG	CGCTTC	CGAGCCGCCG	GTGCTGGT	GC
M44.txt	SEQ ID NO 175	CGCCGATC	GA	GG	GG	CGCTTC	CGAGCCGCCG	GTGCTGGT	GC
M45.txt	SEQ ID NO 176	CGCCGATC	GA	GG	GG	CGCTTC	CGAGCCGCCG	GTGCTGGT	GC
M46.txt	SEQ ID NO 177	CGCCGATC	GA	GG	GG	CGCTTC	CGAGCCGCCG	GTGCTGGT	GC
M47.txt	SEQ ID NO 178	CGCCGATC	GA	GG	GG	CGCTTC	CGAGCCGCCG	GTGCTGGT	GC
M68 (May6).txt	SEQ ID NO 179	CGCCGATC	GA	GG	GG	CGCTTC	CGAGCCGCCG	GTGCTGGT	GC
M89.txt	SEQ ID NO 180	CGCCGATC	GA	GG	GG	CGCTTC	CGAGCCGCCG	GTGCTGGT	GC
M66 (May4).txt	SEQ ID NO 181	CGCCGATC	GA	GG	GG	CGCTTC	CGAGCCGCCG	GTGCTGGT	GC

BASE NOS 481-540

SEQ ID NO 1	ATCC9-Mtb.txt
SEQ ID NO 2	MY621.txt
SEQ ID NO 3	Atcc1-av.txt
SEQ ID NO 4	M29.txt
SEQ ID NO 5	M30.txt
SEQ ID NO 6	M31.txt
SEQ ID NO 7	M32.txt
SEQ ID NO 8	M33.txt
SEQ ID NO 9	M34.txt
SEQ ID NO 10	M48-new.txt
SEQ ID NO 11	MY49.txt
SEQ ID NO 12	M46 (Mav2).txt
SEQ ID NO 13	M45 (Mav3).txt
SEQ ID NO 14	M67 (Mav5).txt
SEQ ID NO 15	M69 (Mav7).txt
SEQ ID NO 16	M71 (Mav9).txt
SEQ ID NO 17	MY91.txt
SEQ ID NO 18	M494.txt
SEQ ID NO 19	MY95.txt
SEQ ID NO 20	M96.txt
SEQ ID NO 21	M100.txt
SEQ ID NO 22	M101.txt
SEQ ID NO 23	M1102.txt
SEQ ID NO 24	M104.txt
SEQ ID NO 25	M105.txt
SEQ ID NO 26	M106.txt
SEQ ID NO 27	MY111.txt
SEQ ID NO 28	M776.txt
SEQ ID NO 29	MY451.txt
SEQ ID NO 30	ATCC2-cho1new.txt
SEQ ID NO 31	M10.txt
SEQ ID NO 32	M11-662.txt
SEQ ID NO 33	M12.txt
SEQ ID NO 34	M13_2_662.txt
SEQ ID NO 35	M114.txt
SEQ ID NO 36	M115.txt
SEQ ID NO 37	M116.txt
SEQ ID NO 38	MY17_2_662.txt
SEQ ID NO 39	M50.txt
SEQ ID NO 40	M51.txt
SEQ ID NO 41	M115.txt
SEQ ID NO 42	M116.txt
SEQ ID NO 43	M119.txt
SEQ ID NO 44	MY109.txt
SEQ ID NO 45	MY200.txt
SEQ ID NO 46	MY207.txt
SEQ ID NO 47	MY209.txt
SEQ ID NO 48	M122.txt
SEQ ID NO 49	M123.txt
SEQ ID NO 50	M124.txt
SEQ ID NO 51	Atcc3-for.txt
SEQ ID NO 52	M53.txt
SEQ ID NO 53	M54.txt
SEQ ID NO 54	M55.txt
SEQ ID NO 55	M56.txt
SEQ ID NO 56	M74 (Mav12).txt

[illegible]

Table 1

H77.txt	SEQ ID NO 57
M118.txt	SEQ ID NO 58
MY221.txt	SEQ ID NO 59
MY223.txt	SEQ ID NO 60
MY225.txt	SEQ ID NO 61
My301.txt	SEQ ID NO 62
My715.txt	SEQ ID NO 63
MY470.txt	SEQ ID NO 64
ATCC4-go.txt	SEQ ID NO 65
ATCC4-0-Gord.txt	SEQ ID NO 66
H78(1x).txt	SEQ ID NO 67
MY9(jd).txt	SEQ ID NO 68
M80(lg).txt	SEQ ID NO 69
M81(1l).txt	SEQ ID NO 70
M82(1m).txt	SEQ ID NO 71
M83(mb).txt	SEQ ID NO 72
M84(ow).txt	SEQ ID NO 73
M85(1b).txt	SEQ ID NO 74
M86(1z).txt	SEQ ID NO 75
M87(w).txt	SEQ ID NO 76
M90(gordb).txt	SEQ ID NO 77
m126.txt	SEQ ID NO 78
M128.txt	SEQ ID NO 79
My103.txt	SEQ ID NO 80
MY475.txt	SEQ ID NO 81
MY476.txt	SEQ ID NO 82
MY930.txt	SEQ ID NO 83
Atcc5-int.txt	SEQ ID NO 84
ATCC5-0int.txt	SEQ ID NO 85
M18.txt	SEQ ID NO 86
M19.txt	SEQ ID NO 87
M20.txt	SEQ ID NO 88
M21.txt	SEQ ID NO 89
M22.txt	SEQ ID NO 90
M23.txt	SEQ ID NO 91
M24.txt	SEQ ID NO 92
M25.txt	SEQ ID NO 93
M26.txt	SEQ ID NO 94
M27.txt	SEQ ID NO 95
M28.txt	SEQ ID NO 96
MY107.txt	SEQ ID NO 97
MY107.txt	SEQ ID NO 98
MY112.txt	SEQ ID NO 99
MY312.txt	SEQ ID NO 100
ATCC6-kan.txt	SEQ ID NO 101
M1.txt	SEQ ID NO 102
M2.txt	SEQ ID NO 103
M3.txt	SEQ ID NO 104
M4.txt	SEQ ID NO 105
M5.txt	SEQ ID NO 106
M6.txt	SEQ ID NO 107
M7.txt	SEQ ID NO 108
M9.txt	SEQ ID NO 109
M57.txt	SEQ ID NO 110
M58.txt	SEQ ID NO 111
M59.txt	SEQ ID NO 112

[illegible]

Table 1

	M60.txt	SEQ ID NO 113
	M61.txt	SEQ ID NO 114
	M62.txt	SEQ ID NO 115
	MY106.txt	SEQ ID NO 116
	MY126.txt	SEQ ID NO 117
	MY218.txt	SEQ ID NO 118
	MY226.txt	SEQ ID NO 119
	MY109.txt	SEQ ID NO 120
	MY111.txt	SEQ ID NO 121
	MY112.txt	SEQ ID NO 122
	MY113.txt	SEQ ID NO 123
	MY114.txt	SEQ ID NO 124
	MY325.txt	SEQ ID NO 125
	MY718.txt	SEQ ID NO 126
	MY214.txt	SEQ ID NO 127
	MY224.txt	SEQ ID NO 128
	MY244.txt	SEQ ID NO 129
	MY339.txt	SEQ ID NO 130
	MY343.txt	SEQ ID NO 131
	MY458.txt	SEQ ID NO 132
	MY809.txt	SEQ ID NO 133
	MY817.txt	SEQ ID NO 134
	MY102.txt	SEQ ID NO 135
	MY821.txt	SEQ ID NO 136
	MY105.txt	SEQ ID NO 137
	MY251.txt	SEQ ID NO 138
	MY256.txt	SEQ ID NO 139
	MY294.txt	SEQ ID NO 140
	MY354.txt	SEQ ID NO 141
	Atcc7-scr.txt	SEQ ID NO 142
	ATCC7-0scr.txt	SEQ ID NO 143
	MY121.txt	SEQ ID NO 144
	MY249.txt	SEQ ID NO 145
	MY372.txt	SEQ ID NO 146
	MY378.txt	SEQ ID NO 147
	MY484.txt	SEQ ID NO 148
	MY556.txt	SEQ ID NO 149
	MY563.txt	SEQ ID NO 150
	MY586.txt	SEQ ID NO 151
	Atcc8-ome.txt	SEQ ID NO 152
	MY35.txt	SEQ ID NO 153
	M36.txt	SEQ ID NO 154
	M37.txt	SEQ ID NO 155
	m125.txt	SEQ ID NO 156
	MY143.txt	SEQ ID NO 157
	MY104.txt	SEQ ID NO 158
	MY196.txt	SEQ ID NO 159
	MY357.txt	SEQ ID NO 160
	MY358.txt	SEQ ID NO 161
	MY480.txt	SEQ ID NO 162
	MY212.txt	SEQ ID NO 163
	MY491.txt	SEQ ID NO 164
	MY497.txt	SEQ ID NO 165
	MY816.txt	SEQ ID NO 166
	Atcc10-xep.t.txt	SEQ ID NO 167
		SEQ ID NO 168

Table 1

SEQ ID NO 166	M38. txt
SEQ ID NO 170	M39. txt
SEQ ID NO 171	M40. txt
SEQ ID NO 172	M41. txt
SEQ ID NO 173	M42. txt
SEQ ID NO 174	M43. txt
SEQ ID NO 175	M44. txt
SEQ ID NO 176	M45. txt
SEQ ID NO 177	M46. txt
SEQ ID NO 178	M47. txt
SEQ ID NO 179	M48(Mav6). txt
SEQ ID NO 180	M49. txt
SEQ ID NO 181	M55(Mav4). txt

Table 1

SEQ ID NO 1	ATCC9-Mtb.txt
SEQ ID NO 2	MT621.txt
SEQ ID NO 3	ATcc1-av.txt
SEQ ID NO 4	MT29.txt
SEQ ID NO 5	M30.txt
SEQ ID NO 6	M31.txt
SEQ ID NO 7	M32.txt
SEQ ID NO 8	M33.txt
SEQ ID NO 9	M34.txt
SEQ ID NO 10	M48-new.txt
SEQ ID NO 11	M49.txt
SEQ ID NO 12	M46(Mav2).txt
SEQ ID NO 13	M45(Mav3).txt
SEQ ID NO 14	M47(Mav5).txt
SEQ ID NO 15	M49(Mav7).txt
SEQ ID NO 16	M71(Mav9).txt
SEQ ID NO 17	M91.txt
SEQ ID NO 18	M94.txt
SEQ ID NO 19	M95.txt
SEQ ID NO 20	M96.txt
SEQ ID NO 21	M100.txt
SEQ ID NO 22	M101.txt
SEQ ID NO 23	M102.txt
SEQ ID NO 24	M104.txt
SEQ ID NO 25	M105.txt
SEQ ID NO 26	M106.txt
SEQ ID NO 27	M111.txt
SEQ ID NO 28	M76.txt
SEQ ID NO 29	MT451.txt
SEQ ID NO 30	ATCC2-chainew.txt
SEQ ID NO 31	M10.txt
SEQ ID NO 32	M11-662.txt
SEQ ID NO 33	M12.txt
SEQ ID NO 34	M13 2_662.txt
SEQ ID NO 35	M14.txt
SEQ ID NO 36	M15.txt
SEQ ID NO 37	M16.txt
SEQ ID NO 38	M17 2_662.txt
SEQ ID NO 39	M50.txt
SEQ ID NO 40	M51.txt
SEQ ID NO 41	M115.txt
SEQ ID NO 42	M116.txt
SEQ ID NO 43	M119.txt
SEQ ID NO 44	MT109.txt
SEQ ID NO 45	MT200.txt
SEQ ID NO 46	MT207.txt
SEQ ID NO 47	MT209.txt
SEQ ID NO 48	M123.txt
SEQ ID NO 49	M124.txt
SEQ ID NO 50	M53.txt
SEQ ID NO 51	M54.txt
SEQ ID NO 52	M55.txt
SEQ ID NO 53	M56.txt
SEQ ID NO 54	M74(Mav12).txt
SEQ ID NO 55	

Table 1

M77.txt	SEQ ID NO 57
M118.txt	SEQ ID NO 58
MY221.txt	SEQ ID NO 59
MY223.txt	SEQ ID NO 60
MY225.txt	SEQ ID NO 61
MY341.txt	SEQ ID NO 62
MY715.txt	SEQ ID NO 63
MY470.txt	SEQ ID NO 64
ATCC4-go.txt	SEQ ID NO 65
ATCC4-0-Gord.txt	SEQ ID NO 66
M78(1z).txt	SEQ ID NO 67
M79(jd).txt	SEQ ID NO 68
M80(lg).txt	SEQ ID NO 69
M81(1l).txt	SEQ ID NO 70
M82(lrm).txt	SEQ ID NO 71
M83(mb).txt	SEQ ID NO 72
M84(ow).txt	SEQ ID NO 73
M85(1b).txt	SEQ ID NO 74
M86(xb).txt	SEQ ID NO 75
M87(wb).txt	SEQ ID NO 76
M90(gordDB).txt	SEQ ID NO 77
m126.txt	SEQ ID NO 78
M128.txt	SEQ ID NO 79
MY103.txt	SEQ ID NO 80
MY475.txt	SEQ ID NO 81
MY476.txt	SEQ ID NO 82
MY830.txt	SEQ ID NO 83
ATCC5-int.txt	SEQ ID NO 84
ATCC5-0int.txt	SEQ ID NO 85
M18.txt	SEQ ID NO 86
M19.txt	SEQ ID NO 87
M20.txt	SEQ ID NO 88
M21.txt	SEQ ID NO 89
M22.txt	SEQ ID NO 90
M23.txt	SEQ ID NO 91
M24.txt	SEQ ID NO 92
M25.txt	SEQ ID NO 93
M26.txt	SEQ ID NO 94
M27.txt	SEQ ID NO 95
M28.txt	SEQ ID NO 96
M107.txt	SEQ ID NO 97
MY107.txt	SEQ ID NO 98
MY112.txt	SEQ ID NO 99
MY312.txt	SEQ ID NO 100
ATCC6-kan.txt	SEQ ID NO 101
ATCC6-0kan.txt	SEQ ID NO 102
M1.txt	SEQ ID NO 103
M2.txt	SEQ ID NO 104
M3.txt	SEQ ID NO 105
M4.txt	SEQ ID NO 106
M6.txt	SEQ ID NO 107
M7.txt	SEQ ID NO 108
M9.txt	SEQ ID NO 109
M57.txt	SEQ ID NO 110
M58.txt	SEQ ID NO 111
M59.txt	SEQ ID NO 112

[illegible]

Table 1

[illegible]

Table 1
BASE NOS 600-660

ATCC9-Mcb.txt	SEQ ID NO 1	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
MY21.txt	SEQ ID NO 2	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
Atcc1-sv.txt	SEQ ID NO 3	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M29.txt	SEQ ID NO 4	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M30.txt	SEQ ID NO 5	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M31.txt	SEQ ID NO 6	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M32.txt	SEQ ID NO 7	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M33.txt	SEQ ID NO 8	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M34.txt	SEQ ID NO 9	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M48-new.txt	SEQ ID NO 10	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M49.txt	SEQ ID NO 11	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M64 (May2).txt	SEQ ID NO 12	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M65 (May3).txt	SEQ ID NO 13	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M67 (May5).txt	SEQ ID NO 14	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M69 (May7).txt	SEQ ID NO 15	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M71 (May9).txt	SEQ ID NO 16	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M91.txt	SEQ ID NO 17	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M94.txt	SEQ ID NO 18	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M95.txt	SEQ ID NO 19	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M96.txt	SEQ ID NO 20	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M100.txt	SEQ ID NO 21	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M101.txt	SEQ ID NO 22	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M102.txt	SEQ ID NO 23	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M104.txt	SEQ ID NO 24	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M105.txt	SEQ ID NO 25	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M106.txt	SEQ ID NO 26	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
MY111.txt	SEQ ID NO 27	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M76.txt	SEQ ID NO 28	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M7451.txt	SEQ ID NO 29	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
AtCC2-chelnew.txt	SEQ ID NO 30	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M10.txt	SEQ ID NO 31	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M11-662.txt	SEQ ID NO 32	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M12.txt	SEQ ID NO 33	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M13-2-662.txt	SEQ ID NO 34	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M14.txt	SEQ ID NO 35	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M15.txt	SEQ ID NO 36	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M16.txt	SEQ ID NO 37	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M17-2-662.txt	SEQ ID NO 38	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M50.txt	SEQ ID NO 39	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M51.txt	SEQ ID NO 40	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M115.txt	SEQ ID NO 41	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M116.txt	SEQ ID NO 42	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M119.txt	SEQ ID NO 43	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
MY109.txt	SEQ ID NO 44	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
MY200.txt	SEQ ID NO 45	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
MY207.txt	SEQ ID NO 46	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
MY209.txt	SEQ ID NO 47	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M122.txt	SEQ ID NO 48	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M123.txt	SEQ ID NO 49	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M124.txt	SEQ ID NO 50	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
Atcc3-for.txt	SEQ ID NO 51	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M53.txt	SEQ ID NO 52	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M54.txt	SEQ ID NO 53	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M55.txt	SEQ ID NO 54	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M56.txt	SEQ ID NO 55	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG
M74 (May12).txt	SEQ ID NO 56	CGAACCGTGGCCCTCATATGGGGGCAAAACATGCAGCGCGCCAGGCGGGT	CGCGCTGGT	CGGTAGCG

Table 1

SEQ ID NO 57	M77.txt	SEQ ID NO 57
SEQ ID NO 58	M118.txt	SEQ ID NO 58
SEQ ID NO 59	MY221.txt	SEQ ID NO 59
SEQ ID NO 60	MY223.txt	SEQ ID NO 60
SEQ ID NO 61	MY225.txt	SEQ ID NO 61
SEQ ID NO 62	MY341.txt	SEQ ID NO 62
SEQ ID NO 63	MY715.txt	SEQ ID NO 63
SEQ ID NO 64	MY470.txt	SEQ ID NO 64
SEQ ID NO 65	Atcc4-90.txt	SEQ ID NO 65
SEQ ID NO 66	ATCC4-0-Gord.txt	SEQ ID NO 66
SEQ ID NO 67	M78(1x).txt	SEQ ID NO 67
SEQ ID NO 68	M79(jd).txt	SEQ ID NO 68
SEQ ID NO 69	M80(1q).txt	SEQ ID NO 69
SEQ ID NO 70	M81(1l).txt	SEQ ID NO 70
SEQ ID NO 71	M82(1ra).txt	SEQ ID NO 71
SEQ ID NO 72	M83(mb).txt	SEQ ID NO 72
SEQ ID NO 73	M84(ow).txt	SEQ ID NO 73
SEQ ID NO 74	M85(1b).txt	SEQ ID NO 74
SEQ ID NO 75	M86(1rb).txt	SEQ ID NO 75
SEQ ID NO 76	M87(wn).txt	SEQ ID NO 76
SEQ ID NO 77	MY90(gordDB).txt	SEQ ID NO 77
SEQ ID NO 78	MY26.txt	SEQ ID NO 78
SEQ ID NO 79	MY128.txt	SEQ ID NO 79
SEQ ID NO 80	MY103.txt	SEQ ID NO 80
SEQ ID NO 81	MY475.txt	SEQ ID NO 81
SEQ ID NO 82	MY476.txt	SEQ ID NO 82
SEQ ID NO 83	MY7830.txt	SEQ ID NO 83
SEQ ID NO 84	Atcc5-Int.txt	SEQ ID NO 84
SEQ ID NO 85	ATCC5-0Int.txt	SEQ ID NO 85
SEQ ID NO 86	MY118.txt	SEQ ID NO 86
SEQ ID NO 87	MY119.txt	SEQ ID NO 87
SEQ ID NO 88	MY20.txt	SEQ ID NO 88
SEQ ID NO 89	MY21.txt	SEQ ID NO 89
SEQ ID NO 90	MY22.txt	SEQ ID NO 90
SEQ ID NO 91	MY23.txt	SEQ ID NO 91
SEQ ID NO 92	MY24.txt	SEQ ID NO 92
SEQ ID NO 93	MY25.txt	SEQ ID NO 93
SEQ ID NO 94	MY26.txt	SEQ ID NO 94
SEQ ID NO 95	MY27.txt	SEQ ID NO 95
SEQ ID NO 96	MY28.txt	SEQ ID NO 96
SEQ ID NO 97	MY107.txt	SEQ ID NO 97
SEQ ID NO 98	MY107.txt	SEQ ID NO 98
SEQ ID NO 99	MY312.txt	SEQ ID NO 99
SEQ ID NO 100	Atcc6-Ran.txt	SEQ ID NO 100
SEQ ID NO 101	ATCC6-0Ran.txt	SEQ ID NO 101
SEQ ID NO 102	M1.txt	SEQ ID NO 102
SEQ ID NO 103	M2.txt	SEQ ID NO 103
SEQ ID NO 104	M3.txt	SEQ ID NO 104
SEQ ID NO 105	M4.txt	SEQ ID NO 105
SEQ ID NO 106	M5.txt	SEQ ID NO 106
SEQ ID NO 107	M6.txt	SEQ ID NO 107
SEQ ID NO 108	M7.txt	SEQ ID NO 108
SEQ ID NO 109	M9.txt	SEQ ID NO 109
SEQ ID NO 110	M57.txt	SEQ ID NO 110
SEQ ID NO 111	M58.txt	SEQ ID NO 111
SEQ ID NO 112	M59.txt	SEQ ID NO 112

[illegible]

BASE NOS 600-660

SEQ ID NO 113	M60.txt
SEQ ID NO 114	M61.txt
SEQ ID NO 115	M62.txt
SEQ ID NO 116	MT106.txt
SEQ ID NO 117	MT216.txt
SEQ ID NO 118	MT218.txt
SEQ ID NO 119	MT226.txt
SEQ ID NO 120	MT226.txt
SEQ ID NO 121	M109.txt
SEQ ID NO 122	M111.txt
SEQ ID NO 123	M112.txt
SEQ ID NO 124	M113.txt
SEQ ID NO 125	M114.txt
SEQ ID NO 126	MY325.txt
SEQ ID NO 127	MY718.txt
SEQ ID NO 128	MY214.txt
SEQ ID NO 129	MY224.txt
SEQ ID NO 130	MY244.txt
SEQ ID NO 131	My339.txt
SEQ ID NO 132	My343.txt
SEQ ID NO 133	MY458.txt
SEQ ID NO 134	MY458.txt
SEQ ID NO 135	MY817.txt
SEQ ID NO 136	MY821.txt
SEQ ID NO 137	MY102.txt
SEQ ID NO 138	MY105.txt
SEQ ID NO 139	MY256.txt
SEQ ID NO 140	MY251.txt
SEQ ID NO 141	MY294.txt
SEQ ID NO 142	MY354.txt
SEQ ID NO 143	ATCC7-accr.txt
SEQ ID NO 144	ATCC7-0acr.txt
SEQ ID NO 145	MY121.txt
SEQ ID NO 146	MY249.txt
SEQ ID NO 147	MY372.txt
SEQ ID NO 148	MY378.txt
SEQ ID NO 149	MY484.txt
SEQ ID NO 150	MY556.txt
SEQ ID NO 151	MY563.txt
SEQ ID NO 152	MY586.txt
SEQ ID NO 153	ATCC8-mno.txt
SEQ ID NO 154	MY35.ttxt
SEQ ID NO 155	MY36.txt
SEQ ID NO 156	MY37.txt
SEQ ID NO 157	m125.txt
SEQ ID NO 158	MY143.txt
SEQ ID NO 159	MY104.txt
SEQ ID NO 160	MY196.txt
SEQ ID NO 161	MY357.txt
SEQ ID NO 162	MY358.txt
SEQ ID NO 163	MY480.txt
SEQ ID NO 164	MY212.txt
SEQ ID NO 165	MY491.txt
SEQ ID NO 166	MY497.txt
SEQ ID NO 167	MY816.txt
SEQ ID NO 168	atcc10-xep.txt
SEQ ID NO 169	

Table 1
BASE NOS 600-660

M38 .txt	SEQ ID NO 169	CGAACCGG	GC	ATGGG	GC	AACATGCAGCGGCCAAGGC	GT	CCG	TGGT	CGT	AGCG
M39 .txt	SEQ ID NO 170	CGAACCGG	GC	ATGGG	GC	AACATGCAGCGGCCAAGGC	GT	CCG	TGGT	CGT	AGCG
M40 .txt	SEQ ID NO 171	CGAACCGG	GC	ATGGG	GC	AACATGCAGCGGCCAAGGC	GT	CCG	TGGT	CGT	AGCG
M41 .txt	SEQ ID NO 172	CGAACCGG	GC	ATGGG	GC	AACATGCAGCGGCCAAGGC	GT	CCG	TGGT	CGT	AGCG
M42 .txt	SEQ ID NO 173	CGAACCGG	GC	ATGGG	GC	AACATGCAGCGGCCAAGGC	GT	CCG	TGGT	CGT	AGCG
M43 .txt	SEQ ID NO 174	CGAACCGG	GC	ATGGG	GC	AACATGCAGCGGCCAAGGC	GT	CCG	TGGT	CGT	AGCG
M44 .txt	SEQ ID NO 175	CGAACCGG	GC	ATGGG	GC	AACATGCAGCGGCCAAGGC	GT	CCG	TGGT	CGT	AGCG
M45 .txt	SEQ ID NO 176	CGAACCGG	GC	ATGGG	GC	AACATGCAGCGGCCAAGGC	GT	CCG	TGGT	CGT	AGCG
M46 .txt	SEQ ID NO 177	CGAACCGG	GC	ATGGG	GC	AACATGCAGCGGCCAAGGC	GT	CCG	TGGT	CGT	AGCG
M47 .txt	SEQ ID NO 178	CGAACCGG	GC	ATGGG	GC	AACATGCAGCGGCCAAGGC	GT	CCG	TGGT	CGT	AGCG
M48 (May6) .txt	SEQ ID NO 179	CGAACCGG	GC	ATGGG	GC	AACATGCAGCGGCCAAGGC	GT	CCG	TGGT	CGT	AGCG
M49 .txt	SEQ ID NO 180	CGAACCGG	GC	ATGGG	GC	AACATGCAGCGGCCAAGGC	GT	CCG	TGGT	CGT	AGCG
M55 (May4) .txt	SEQ ID NO 181	CGAACCGG	GC	ATGGG	GC	AACATGCAGCGGCCAAGGC	GT	CCG	TGGT	CGT	AGCG

Table 1
BASE NOS 660-720

ATCC9-Meb. txt	SEQ ID NO 1	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
MY21. txt	SEQ ID NO 2	AGGCTCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
Atcc1-av. txt	SEQ ID NO 3	ANGCCCGGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M29. txt	SEQ ID NO 4	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M30. txt	SEQ ID NO 5	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M31. txt	SEQ ID NO 6	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M32. txt	SEQ ID NO 7	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M33. txt	SEQ ID NO 8	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M34. txt	SEQ ID NO 9	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M48-new. txt	SEQ ID NO 10	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M49. txt	SEQ ID NO 11	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M64 (May2). txt	SEQ ID NO 12	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M65 (May3). txt	SEQ ID NO 13	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M67 (May5). txt	SEQ ID NO 14	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M69 (May7). txt	SEQ ID NO 15	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M71 (May9). txt	SEQ ID NO 16	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M91. txt	SEQ ID NO 17	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M94. txt	SEQ ID NO 18	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M95. txt	SEQ ID NO 19	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M96. txt	SEQ ID NO 20	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M100. txt	SEQ ID NO 21	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M101. txt	SEQ ID NO 22	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M102. txt	SEQ ID NO 23	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M104. txt	SEQ ID NO 24	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M105. txt	SEQ ID NO 25	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M106. txt	SEQ ID NO 26	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
MY111. txt	SEQ ID NO 27	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M76. txt	SEQ ID NO 28	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
MY451. txt	SEQ ID NO 29	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
ATCC2-chainew. txt	SEQ ID NO 30	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M10. txt	SEQ ID NO 31	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M11-662. txt	SEQ ID NO 32	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M12. txt	SEQ ID NO 33	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M13_2_662. txt	SEQ ID NO 34	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M14. txt	SEQ ID NO 35	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M15. txt	SEQ ID NO 36	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M16. txt	SEQ ID NO 37	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M17_2_662. txt	SEQ ID NO 38	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M50. txt	SEQ ID NO 39	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M51. txt	SEQ ID NO 40	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M115. txt	SEQ ID NO 41	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M116. txt	SEQ ID NO 42	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M119. txt	SEQ ID NO 43	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
MY109. txt	SEQ ID NO 44	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
MY200. txt	SEQ ID NO 45	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
MY207. txt	SEQ ID NO 46	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
MY209. txt	SEQ ID NO 47	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M122. txt	SEQ ID NO 48	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M123. txt	SEQ ID NO 49	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M124. txt	SEQ ID NO 50	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
Atcc3-for. txt	SEQ ID NO 51	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M53. txt	SEQ ID NO 52	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M54. txt	SEQ ID NO 53	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M55. txt	SEQ ID NO 54	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M56. txt	SEQ ID NO 55	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT
M74 (May12). txt	SEQ ID NO 56	AGGCCCCCGCTGGTGGGACACCGGGATGGAGCTGCGCGCGCGCGATCGACGCGCGGACGCT

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M77.txt	SEQ ID NO 57	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M118.txt	SEQ ID NO 58	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M221.txt	SEQ ID NO 59	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M223.txt	SEQ ID NO 60	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M225.txt	SEQ ID NO 61	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M341.txt	SEQ ID NO 62	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M715.txt	SEQ ID NO 63	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M770.txt	SEQ ID NO 64	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
Atcc4-go.txt	SEQ ID NO 65	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
ATCC4-0-Gord.txt	SEQ ID NO 66	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M78(1x).txt	SEQ ID NO 67	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M79(1d).txt	SEQ ID NO 68	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M80(1q).txt	SEQ ID NO 69	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M81(1l).txt	SEQ ID NO 70	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M82(1m).txt	SEQ ID NO 71	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M83(1n).txt	SEQ ID NO 72	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M84(1o).txt	SEQ ID NO 73	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M85(1b).txt	SEQ ID NO 74	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M86(1c).txt	SEQ ID NO 75	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M87(1n).txt	SEQ ID NO 76	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M90(gordDB).txt	SEQ ID NO 77	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
m126.txt	SEQ ID NO 78	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M128.txt	SEQ ID NO 79	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M103.txt	SEQ ID NO 80	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M175.txt	SEQ ID NO 81	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M176.txt	SEQ ID NO 82	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M130.txt	SEQ ID NO 83	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
Atcc5-int.txt	SEQ ID NO 84	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
ATCC5-0int.txt	SEQ ID NO 85	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M18.txt	SEQ ID NO 86	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M19.txt	SEQ ID NO 87	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M20.txt	SEQ ID NO 88	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M21.txt	SEQ ID NO 89	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M22.txt	SEQ ID NO 90	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M23.txt	SEQ ID NO 91	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M24.txt	SEQ ID NO 92	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M25.txt	SEQ ID NO 93	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M26.txt	SEQ ID NO 94	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M27.txt	SEQ ID NO 95	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M28.txt	SEQ ID NO 96	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M107.txt	SEQ ID NO 97	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M112.txt	SEQ ID NO 98	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M1312.txt	SEQ ID NO 99	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
Atcc6-kan.txt	SEQ ID NO 100	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
ATCC6-0kan.txt	SEQ ID NO 101	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M1.txt	SEQ ID NO 102	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M2.txt	SEQ ID NO 103	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M3.txt	SEQ ID NO 104	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M4.txt	SEQ ID NO 105	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M5.txt	SEQ ID NO 106	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M6.txt	SEQ ID NO 107	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M7.txt	SEQ ID NO 108	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M9.txt	SEQ ID NO 109	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M10.txt	SEQ ID NO 110	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M11.txt	SEQ ID NO 111	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT
M12.txt	SEQ ID NO 112	A	GGCC	CCGCT	GGT	GGG	ACCGG	AT	GGAGCT	GGCGCGCGCGGAT	CGACGGCGGACGT

Table 1

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[illegible]

Table 1

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M38.txt	SEQ ID NO 169	AGGC	CCGCTGGTGGGCA	CCGGGATGGA	TGCGCGCGCGCGATCGACGCGGCGGACGT	670
M39.txt	SEQ ID NO 170	AGGC	CCGCTGGTGGGCA	CCGGGATGGA	TGCGCGCGCGCGATCGACGCGGCGGACGT	680
M40.txt	SEQ ID NO 171	AGGC	CCGCTGGTGGGCA	CCGGGATGGA	TGCGCGCGCGCGATCGACGCGGCGGACGT	690
M41.txt	SEQ ID NO 172	AGGC	CCGCTGGTGGGCA	CCGGGATGGA	TGCGCGCGCGCGATCGACGCGGCGGACGT	700
M42.txt	SEQ ID NO 173	AGGC	CCGCTGGTGGGCA	CCGGGATGGA	TGCGCGCGCGCGATCGACGCGGCGGACGT	710
M43.txt	SEQ ID NO 174	AGGC	CCGCTGGTGGGCA	CCGGGATGGA	TGCGCGCGCGCGATCGACGCGGCGGACGT	720
M44.txt	SEQ ID NO 175	AGGC	CCGCTGGTGGGCA	CCGGGATGGA	TGCGCGCGCGCGATCGACGCGGCGGACGT	
M45.txt	SEQ ID NO 176	AGGC	CCGCTGGTGGGCA	CCGGGATGGA	TGCGCGCGCGCGATCGACGCGGCGGACGT	
M46.txt	SEQ ID NO 177	AGGC	CCGCTGGTGGGCA	CCGGGATGGA	TGCGCGCGCGCGATCGACGCGGCGGACGT	
M47.txt	SEQ ID NO 178	AGGC	CCGCTGGTGGGCA	CCGGGATGGA	TGCGCGCGCGCGATCGACGCGGCGGACGT	
M48 (May6).txt	SEQ ID NO 179	AGGC	CCGCTGGTGGGCA	CCGGGATGGA	TGCGCGCGCGCGATCGACGCGGCGGACGT	
M49.txt	SEQ ID NO 180	AGGC	CCGCTGGTGGGCA	CCGGGATGGA	TGCGCGCGCGCGATCGACGCGGCGGACGT	
M56 (May4).txt	SEQ ID NO 181	AGGC	CCGCTGGTGGGCA	CCGGGATGGA	TGCGCGCGCGCGATCGACGCGGCGGACGT	